Refine Search

Search Results -

Terms	Documents
L6 and epoxyvinylsulfon$8	1

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L10

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Sunday, September 30, 2007 **Purge Queries** Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
L10	L6 and epoxyvinylsulfon$8	1	L10
L9	L6 and allylic$9	43	L9
L8	L6 and allylic alohol	0	L8
L7	L6 and allylic alohol and epoxyvinylsulfon$8	0	L7
L6	L3 and oxidiz$8	170	L6
L5	L4 and oxidiz$8	1	L5
L4	L3 and dienylsulfide	1	L4
L3	L2 and 549/$	423	L3
L2	synthons and intermediates	2753	L2
DB=PGPB; PLUR=YES; OP=ADJ			
L1	20040138485	1	L1

END OF SEARCH HISTORY

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20040138485 A1

L10: Entry 1 of 1 File: PGPB Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040138485
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040138485 A1

TITLE: Chemical synthons and intermediates

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Fuchs, Philip L.	West Lafayette	IN	US
Meyers, David J.	Brookline	MA	US
Torres, Eduardo	West Lafayette	IN	US
Park, Taesik	West Lafayette	IN	US
Kim, In C.	New Haven	CT	US
Chen, Yuzhong	Newark	DE	US
Lantrip, Douglas	Lafayette	IN	US
Evarts, Jerry B. JR.	Kirkland	WA	US

US-CL-CURRENT: 549/546; 564/80, 568/28

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L6 and epoxyvinylsulfon$8	1

Display Format: - Change Format

Previous Page Next Page Go to Doc#

```
 10.9% PROCESSED   816518 ITERATIONS                          19 ANSWERS

 13.4% PROCESSED  1000000 ITERATIONS                          44 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.44

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:      7487285 TO  7487285
PROJECTED ANSWERS:             275 TO      383

L2            44 SEA SSS FUL L1



L3           10 L2

=> s l3 and py<2002
      21900261 PY<2002
L4            0 L3 AND PY<2002

=> s l3 1-10 ibib abs hitstr
MISSING OPERATOR L3 1-10
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.

=> d l3 1-10 ibib abs hitstr

L3   ANSWER 1 OF 10  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2007:874408  CAPLUS
DOCUMENT NUMBER:          147:257654
TITLE:                    Preparation of pyridone derivatives as herbicides
INVENTOR(S):              Takabe, Fumiaki; Fukumoto, Shunichirou; Kajiki, Ryu;
                          Asakura, Sohei; Ueno, Ryohei; Kobayashi, Masami;
                          Takahashi, Satoru; Yonekura, Norihisa; Hanai, Ryo;
                          Mitsunari, Takashi
PATENT ASSIGNEE(S):       Kumiai Chemical Industry Co., Ltd., Japan; Ihara
                          Chemical Industry Co., Ltd.
SOURCE:                   PCT Int. Appl., 189pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 Japanese
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     WO 2007088876         A1    20070809    WO 2007-JP51566         20070131
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
             KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
             MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
             RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
             TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
             GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM
PRIORITY APPLN. INFO.:                   JP 2006-25322       A  20060202
```

FILE COVERS 1907 - 30 Sep 2007 VOL 147 ISS 15
FILE LAST UPDATED: 28 Sep 2007 (20070928/ED)

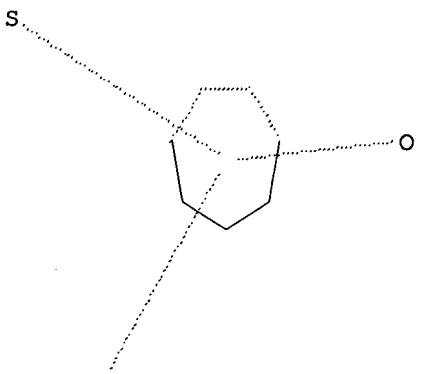
Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=>
Uploading C:\Program Files\Stnexp\Queries\781.str

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



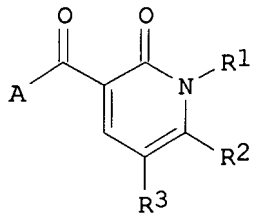
Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

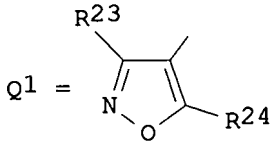
FULL SEARCH INITIATED 15:44:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 7487285 TO ITERATE

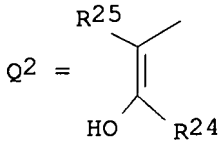
6.0% PROCESSED 450996 ITERATIONS 6 ANSWERS

OTHER SOURCE(S): MARPAT 147:257654
GI



I

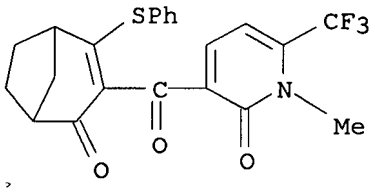




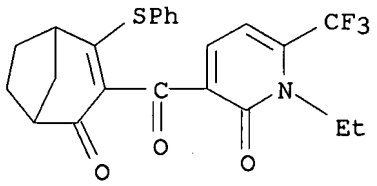
AB The title compds. I [R1 = alkyl, alkenyl, alkynyl, etc.; R2, R3 = H, nitro, cyano, etc.; A = Q1, Q2, etc.; R23 = alkyl, haloalkyl, cycloalkyl, etc.; R24 = H, halo, cyano, etc.; R25 = alkoxycarbonyl, cyano, nitro] are prepared Thus, 2-[1,2-dihydro-1-methyl-2-oxo-6-(trifluoromethyl)pyridine-3-carbonyl]-3-hydroxy-2-cyclohexen-1-one was prepared in a 2-step process starting from 1,2-dihydro-1-methyl-2-oxo-6-(trifluoromethyl)pyridine-3-carboxylic acid. Compds. of this invention at 1000 g/ha gave ≥ 90% control of Echinochloa oryzicola.

IT 945901-14-4P 945901-15-5P
RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of pyridone derivs. as herbicides)

RN 945901-14-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

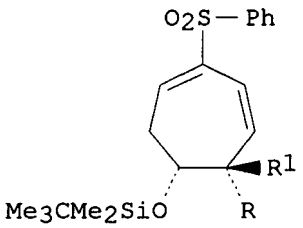


RN 945901-15-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

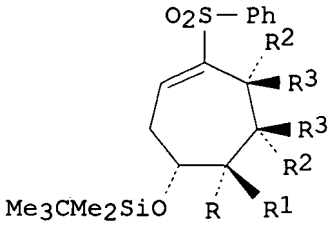


REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

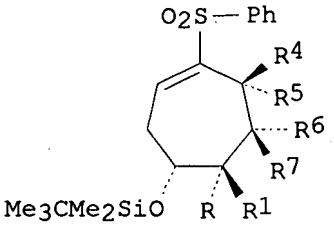
L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:637518 CAPLUS
DOCUMENT NUMBER: 147:257574
TITLE: Asymmetric Synthesis of All Eight Seven-Carbon Dipropionate Stereotetrads
AUTHOR(S): El-Awa, Ahmad; Mollat du Jourdin, Xavier; Fuchs, Philip L.
CORPORATE SOURCE: Department of Chemistry, Purdue University, West Lafayette, IN, 47907, USA
SOURCE: Journal of the American Chemical Society (2007), 129(29), 9086-9093
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



II



III

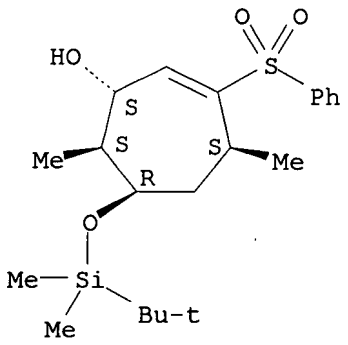
AB Enantiopure cycloheptadienyl sulfones I (R = Me, R1 = H; R = H, R1 = Me) are diastereoselectively epoxidized to yield epoxyvinyl sulfones II (R = Me, R1 = R2 = H, R32 = O; R = Me, R1 = R3 = H, R22 = O; R = R2 = H, R1 = Me, R32 = O; R = R3 = H, R1 = Me, R22 = O) in high yields and diastereomeric ratios. Syn and anti methylation of epoxides II enables access to all eight possible diastereomeric stereotetrads, seven of which are commonly found in polypropionate natural products. Anti methylations of the above epoxides are possible by either the reaction of Me organometallics promoted by copper(I) or via reaction with trimethylaluminum to yield stereotetrads III (R = R5 = Me, R1 = R4 = R6 = H, R7 = OH; R = R5 = Me, R1 = R4 = R7 = H, R6 = OH; R = R4 = R6 = H, R1 = R5 = Me, R7 = OH; R = R5 = R7 = H, R1 = R4 = Me, R6 = OH). Syn methylations are achieved via Lawton SN2' reaction in the case of stereotetrads III (R = R4 = Me, R1 = R5 = R6 = H, R7 = OH; R = R5 = R6 = H, R1 = R4 = Me, R7 = OH; R = R4 = R7 = H, R1 = R5 = Me, R6 = OH), while stereotetrad III (R = R5 = Me, R1 = R4 = R7 = H, R6 = OH) is accessed by an oxidation/reduction alc. inversion sequence from stereotetrad III (R = R5 = Me, R1 = R4 = R6 = H, R7 = OH). All stereotetrads were obtained in high diastereomeric ratios and yields, and their relative stereochem. was confirmed by X-ray crystallog. Oxidative cleavage of the cyclic stereotetrads yields termini-differentiated acyclic heptanyl stereotetrads ready for use in building larger fragments in the course of target

syntheses.

IT 945931-78-2P 945931-79-3P 945931-81-7P
945931-82-8P 945931-96-4P
RL: BYP (Byproduct); PREP (Preparation)
(asym. synthesis of eight 7-carbon dipropionate stereotetrads via epoxidn., methylation of epoxides and oxidative cleavage)

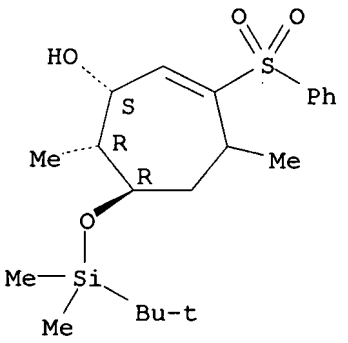
RN 945931-78-2 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,7-dimethyl-3-(phenylsulfonyl)-, (1S,4S,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



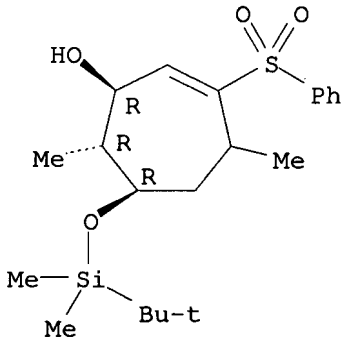
RN 945931-79-3 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,7-dimethyl-3-(phenylsulfonyl)-, (1S,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



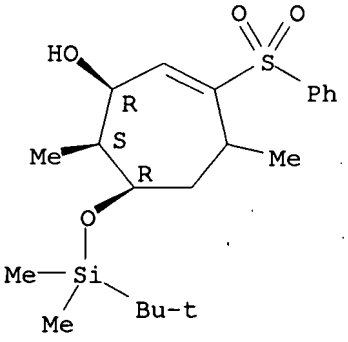
RN 945931-81-7 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,7-dimethyl-3-(phenylsulfonyl)-, (1R,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



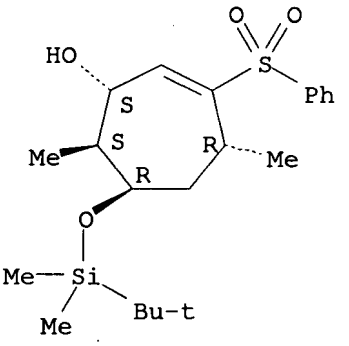
RN 945931-82-8 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,7-dimethyl-3-(phenylsulfonyl)-, (1R,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



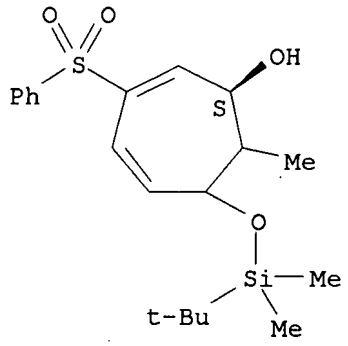
RN 945931-96-4 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4,7-dimethyl-3-(phenylsulfonyl)-, (1S,4R,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



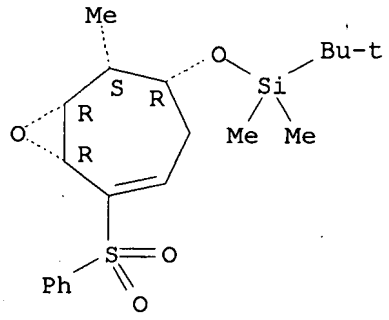
IT 945931-83-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(asym. synthesis of eight 7-carbon dipropionate stereotetrads via epoxidn., methylation of epoxides and oxidative cleavage)
RN 945931-83-9 CAPLUS
CN 2,4-Cycloheptadien-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-methyl-3-(phenylsulfonyl)-, (1S)- (CA INDEX NAME)

Absolute stereochemistry.



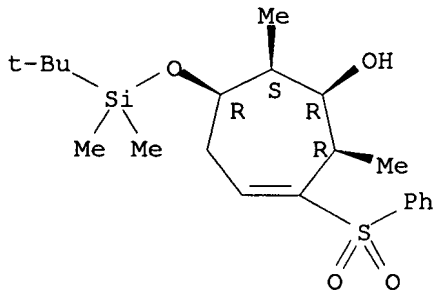
IT 945931-73-7P 945931-76-0P 945931-77-1P
945931-86-2P 945931-89-5P 945931-90-8P
945931-93-1P 945931-94-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(asym. synthesis of eight 7-carbon dipropionate stereotetrads via epoxidn., methylation of epoxides and oxidative cleavage)
RN 945931-73-7 CAPLUS
CN 8-Oxabicyclo[5.1.0]oct-2-ene, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-methyl-2-(phenylsulfonyl)-, (1R,5R,6S,7R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 945931-76-0 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1R,2R,6R,7S)- (CA INDEX NAME)

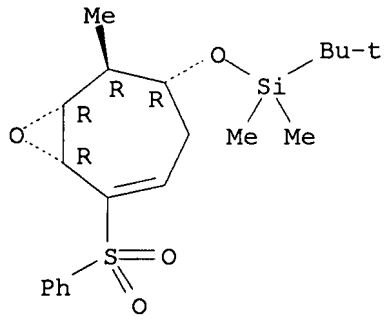
Absolute stereochemistry.



RN 945931-77-1 CAPLUS
CN 8-Oxabicyclo[5.1.0]oct-2-ene, 5-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-6-

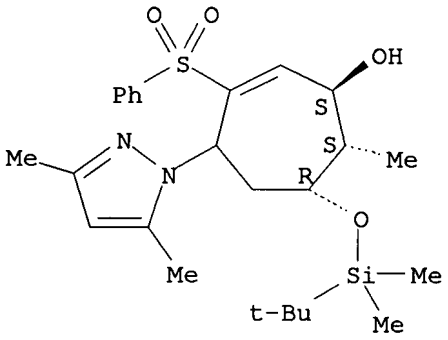
methyl-2-(phenylsulfonyl)-, (1R,5R,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



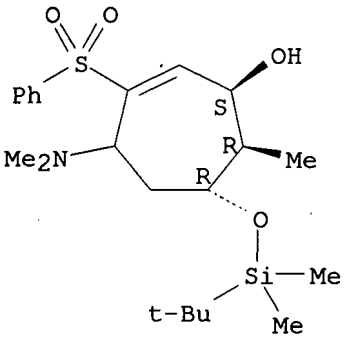
RN 945931-86-2 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-(3,5-dimethyl-1H-pyrazol-1-yl)-7-methyl-3-(phenylsulfonyl)-, (1S,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



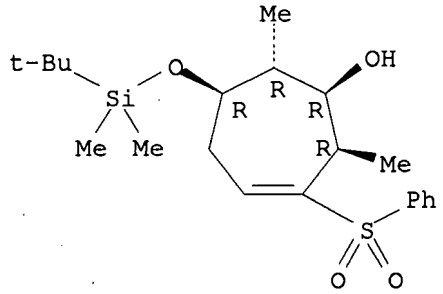
RN 945931-89-5 CAPLUS
CN 2-Cyclohepten-1-ol, 4-(dimethylamino)-6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-methyl-3-(phenylsulfonyl)-, (1S,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



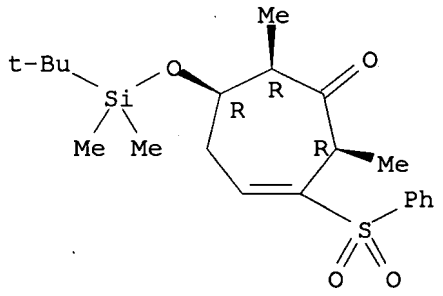
RN 945931-90-8 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1R,2R,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



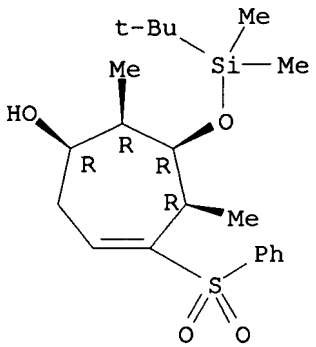
RN 945931-93-1 CAPLUS
CN 3-Cyclohepten-1-one, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (2R,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 945931-94-2 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-5,7-dimethyl-4-(phenylsulfonyl)-, (1R,5R,6R,7R)- (CA INDEX NAME)

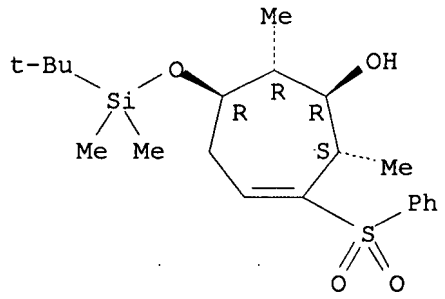
Absolute stereochemistry.



IT 945931-80-6P 945931-84-0P 945931-85-1P
945931-87-3P 945931-91-9P 945931-92-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(asym. synthesis of eight 7-carbon dipropionate stereotetrads via epoxidn., methylation of epoxides and oxidative cleavage)

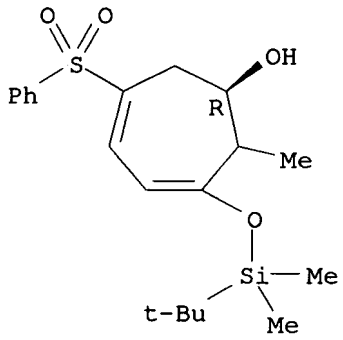
RN 945931-80-6 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, (1R,2S,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.

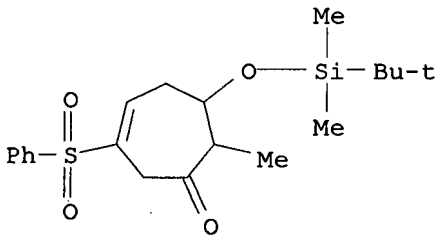


RN 945931-84-0 CAPLUS
CN 3,5-Cycloheptadien-1-ol, 3-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2-methyl-6-(phenylsulfonyl)-, (1R)- (CA INDEX NAME)

Absolute stereochemistry.

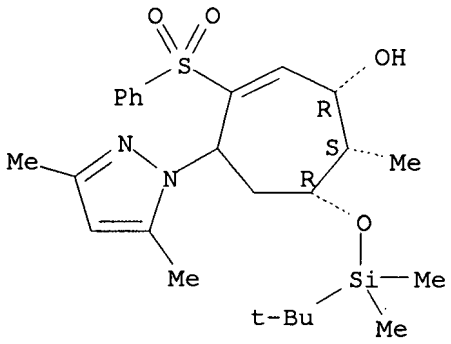


RN 945931-85-1 CAPLUS
CN 3-Cyclohepten-1-one, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-methyl-3-(phenylsulfonyl)- (CA INDEX NAME)



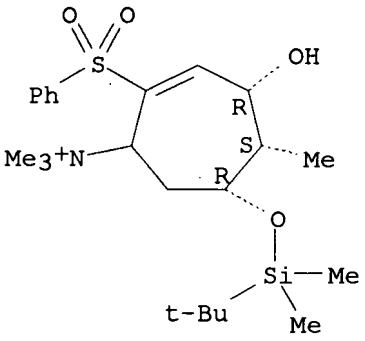
RN 945931-87-3 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-(3,5-dimethyl-1H-pyrazol-1-yl)-7-methyl-3-(phenylsulfonyl)-, (1R,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



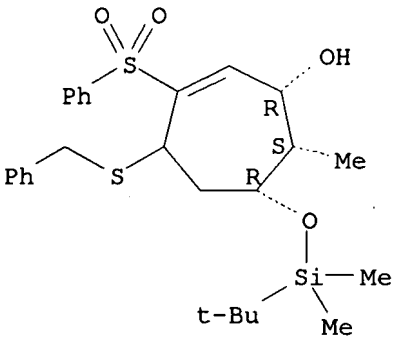
RN 945931-91-9 CAPLUS
CN 2-Cyclohepten-1-aminium, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-4-hydroxy-N,N,N,5-tetramethyl-2-(phenylsulfonyl)-, (4R,5S,6R)- (CA INDEX NAME)

Absolute stereochemistry.



RN 945931-92-0 CAPLUS
CN 2-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-methyl-4-[(phenylmethyl)thio]-3-(phenylsulfonyl)-, (1R,6R,7S)- (CA INDEX NAME)

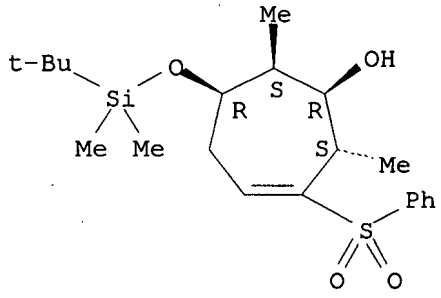
Absolute stereochemistry.



IT 945931-75-9P 945931-97-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure; asym. synthesis of eight 7-carbon dipropionate stereotetrads via epoxidn., methylation of epoxides and oxidative cleavage)
RN 945931-75-9 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-

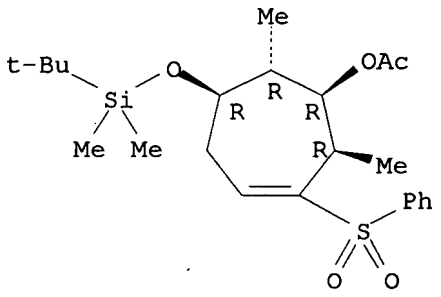
3-(phenylsulfonyl)-, (1R,2S,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



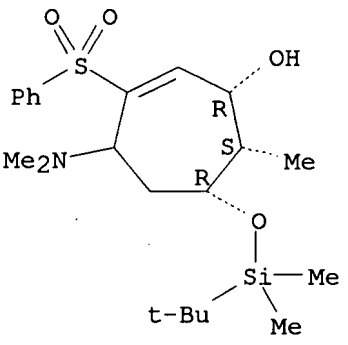
RN 945931-97-5 CAPLUS
CN 3-Cyclohepten-1-ol, 6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-2,7-dimethyl-3-(phenylsulfonyl)-, 1-acetate, (1R,2R,6R,7R)- (CA INDEX NAME)

Absolute stereochemistry.



IT 945931-88-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(failed methylation/oxidative Cope elimination; asym. synthesis of eight 7-carbon dipropionate stereotetrads via epoxidn., methylation of epoxides and oxidative cleavage)
RN 945931-88-4 CAPLUS
CN 2-Cyclohepten-1-ol, 4-(dimethylamino)-6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]-7-methyl-3-(phenylsulfonyl)-, (1R,6R,7S)- (CA INDEX NAME)

Absolute stereochemistry.



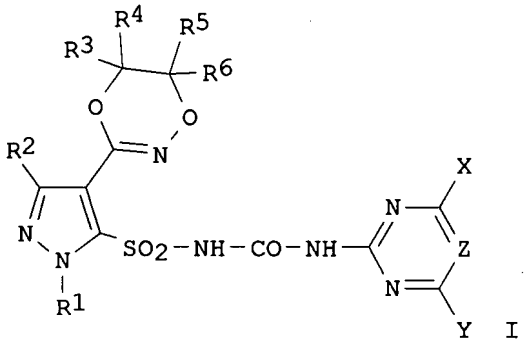
REFERENCE COUNT: 65 THERE ARE 65 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:462031 CAPLUS
DOCUMENT NUMBER: 146:416740
TITLE: Herbicide compositions containing pyrazolesulfonylureas
INVENTOR(S): Saeki, Manabu
PATENT ASSIGNEE(S): Nissan Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 111pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007046440	A1	20070426	WO 2006-JP320777	20061018

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-303144 A 20051018
JP 2005-311700 A 20051026
OTHER SOURCE(S): MARPAT 146:416740
GI



I

AB A herbicide composition useful in rice cultivation contains both I (R1 = C1-3 (halo)alkyl, alkoxyalkyl, Ph, pyridyl; R2 = H, C1-3 (halo)alkyl or alkoxy, halo; R3-R6 = H, (halo)alkyl, etc.; X, Y = C1-3 (halo)alkyl or (halo)alkoxy, halo, dialkylamino; Z = N, CH) and ≥1 compound selected from among dymron, dimepiperate, and esprocarb; a weeding method comprises applying I and ≥1 compound selected from dymron, dimepiperate, and esprocarb either simultaneously or at different times. Herbicide compns. also may contain I and ≥1 other compound such as cinosulfuron, benthiocarb, etc. Thus, I (R1 = Me, R2 = Cl, R3 = Me, R4-R6 = H, X, Y =

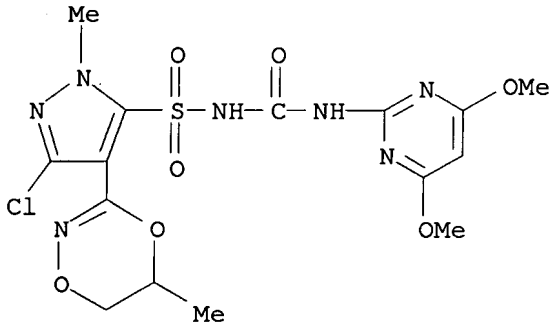
MeO, Z = CH) at 0.5 g/are was ineffective against Scirpus juncoides, but when the same compound was applied in combination with cafenstrole (2.5 g/are), weed control was ≥90%.

IT 934352-34-8 934352-61-1 934352-88-2
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(herbicide combinations including pyrazolesulfonylureas useful for weed control in rice)

RN 934352-34-8 CAPLUS
CN 1H-Pyrazole-5-sulfonamide, 3-chloro-4-(5,6-dihydro-5-methyl-1,4,2-dioxazin-3-yl)-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-1-methyl-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

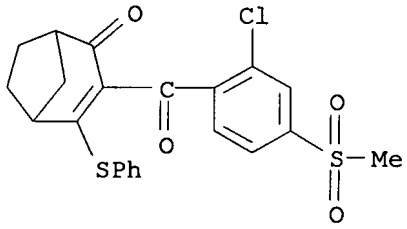
CM 1

CRN 868680-84-6
CMF C15 H18 Cl N7 O7 S



CM 2

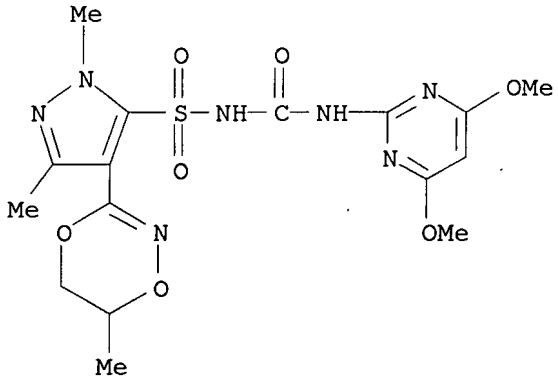
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



RN 934352-61-1 CAPLUS
CN 1H-Pyrazole-5-sulfonamide, 4-(5,6-dihydro-6-methyl-1,4,2-dioxazin-3-yl)-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-1,3-dimethyl-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

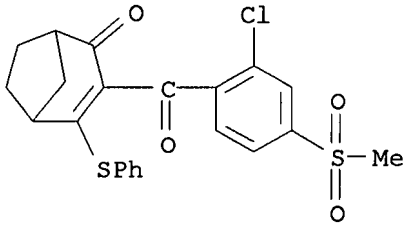
CM 1

CRN 868680-92-6
CMF C16 H21 N7 O7 S



CM 2

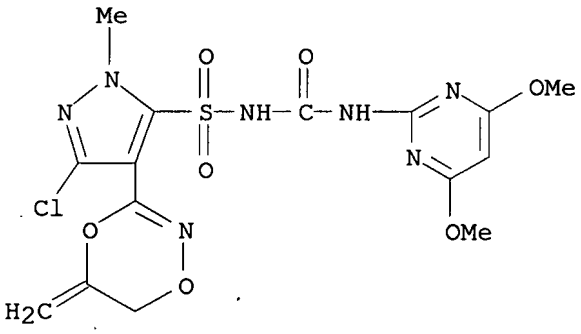
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



RN 934352-88-2 CAPLUS
CN 1H-Pyrazole-5-sulfonamide, 3-chloro-4-(5,6-dihydro-5-methylene-1,4,2-dioxazin-3-yl)-N-[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]-1-methyl-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

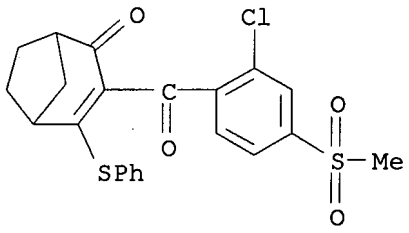
CM 1

CRN 934352-02-0
CMF C15 H16 Cl N7 O7 S



CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



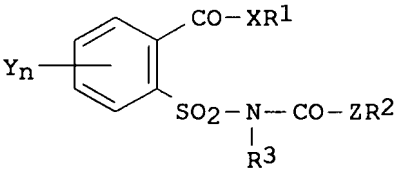
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:227224 CAPLUS
DOCUMENT NUMBER: 146:268408
TITLE: Phenylsulfonylcarbamate derivatives as herbicide safeners
INVENTOR(S): Furuse, Katsumi; Takahashi, Satoru; Ohno, Shuji; Ogawa, Yasunori; Mitsunari, Takashi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 78pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023764	A1	20070301	WO 2006-JP316316	20060821

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-245544 A 20050826
OTHER SOURCE(S): MARPAT 146:268408
GI



I

AB Phenylsulfonylcarbamate derivs. (I, wherein R1, R2, R3 = H, alkyl, etc.; Y = halo, NO2, etc.; n = 0-4 integer; X, Z = O, S) or salts thereof decrease the harmful effect of herbicides against cultivated plants without loss of

effectiveness. Thus, when benzobicyclon (40 g/10 are) was applied 5 days after transplanting rice in a pot experiment, growth inhibition was 20% at 29 days after transplanting, whereas when I (R1, R3 = H, R2 = 4-chlorobenzyl, X = O, n = 0) was applied at 240 g/10 are on the day after transplanting with the same benzobicyclon treatment, the growth inhibition with only 8%.

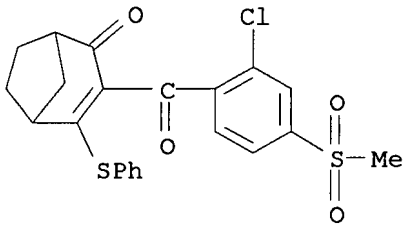
IT 927411-99-2
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + Bensulfuron-Me + compound III-1; safened herbicide composition)

RN 927411-99-2 CAPLUS

CN Benzoic acid, 2-[[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]-, methyl ester, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and methyl 2-[[(ethoxycarbonyl)amino]sulfonyl]benzoate (CA INDEX NAME)

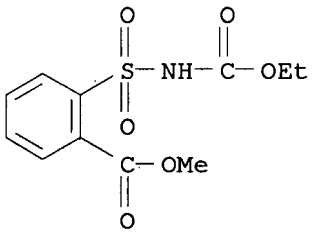
CM 1

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



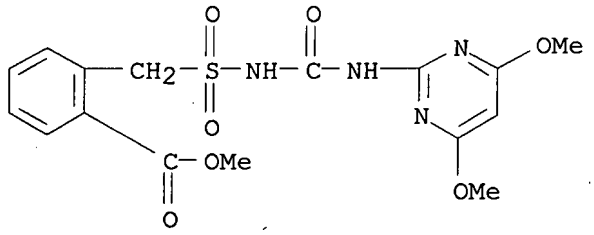
CM 2

CRN 83404-84-6
CMF C11 H13 N O6 S



CM 3

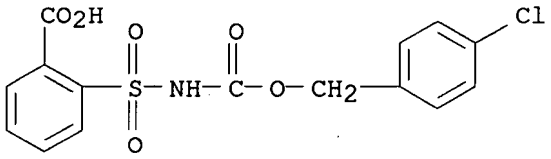
CRN 83055-99-6
CMF C16 H18 N4 O7 S



IT 927411-95-8
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + cafenstrole + compound I-36; safened herbicide composition)
RN 927411-95-8 CAPLUS
CN Benzoic acid, 2-[[[[(4-chlorophenyl)methoxy]carbonyl]amino]sulfonyl]-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and N,N-diethyl-3-[(2,4,6-trimethylphenyl)sulfonyl]-1H-1,2,4-triazole-1-carboxamide (CA INDEX NAME)

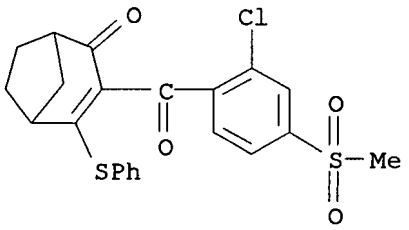
CM 1

CRN 808197-84-4
CMF C15 H12 Cl N O6 S



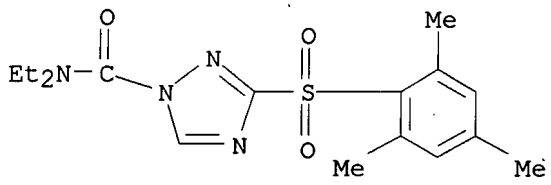
CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



CM 3

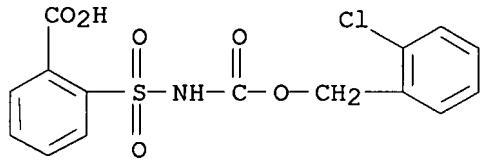
CRN 125306-83-4
CMF C16 H22 N4 O3 S



IT 927411-91-4
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + compound I-35; safened herbicide composition)
RN 927411-91-4 CAPLUS
CN Benzoic acid, 2-[[[[(2-chlorophenyl)methoxy]carbonyl]amino]sulfonyl]-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

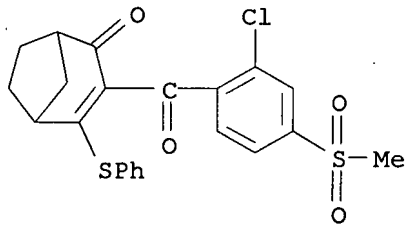
CM 1

CRN 808197-83-3
CMF C15 H12 Cl N O6 S



CM 2

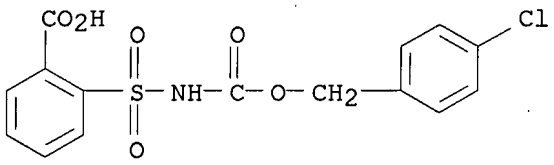
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



IT 927411-88-9
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(benzobicyclon + compound I-36; safened herbicide composition)
RN 927411-88-9 CAPLUS
CN Benzoic acid, 2-[[[[(4-chlorophenyl)methoxy]carbonyl]amino]sulfonyl]-, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

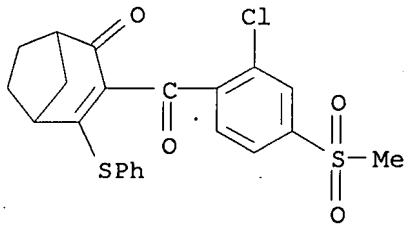
CM 1

CRN 808197-84-4
CMF C15 H12 Cl N O6 S



CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

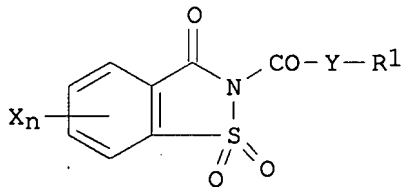
L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:226871 CAPLUS
DOCUMENT NUMBER: 146:268407
TITLE: Benzoisothiazolinone dioxides as herbicide safeners
INVENTOR(S): Furuse, Katsumi; Ueno, Ryohei; Asakura, Sohei; Yonekura, Norihisa; Mitsunari, Takashi
PATENT ASSIGNEE(S): Kumiai Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 68pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007023719	A1	20070301	WO 2006-JP316097	20060816

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-239757 A 20050822
OTHER SOURCE(S): MARPAT 146:268407
GI



I

AB 1,2-Benzoisothiazolin-3-one-1,1-dioxide derivs. (I, wherein Y = O, S; R1 = C1-16 alkyl, C2-6 alkenyl, etc.; X = halo, NO2, alkyl, etc.; n = 0-4 integer) or salts thereof are extremely favorable for reducing chemical injury to cultivated plants without reducing weed control by herbicides. Thus, in a pot experiment I (Y = O, R1 = 4-chlorobenzyl, n = 0) was applied at 240 g/10 are on the day after transplanting (DAT) of rice, and benzobicyclon was applied at 20 g/10 are at 5 DAT. There was no inhibition of rice growth at 32 DAT, whereas rice growth inhibition was 6% when benzobicyclon was applied without the safener. In another experiment with benzobicyclon applied at 12.5 g/10 are, control of Scirpus juncoides was ≥90%, whether or not pots were pretreated with 240 g/10 are of the same I derivative

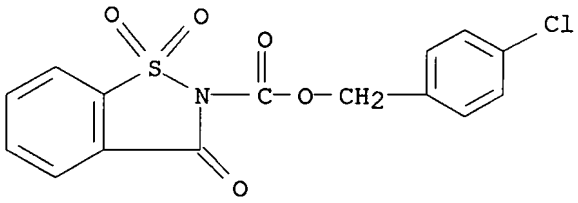
IT 927419-12-3 927419-15-6 927419-22-5
927419-26-9
RL: AGR (Agricultural use); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)
(safened herbicide compns.)

RN 927419-12-3 CAPLUS

CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (4-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

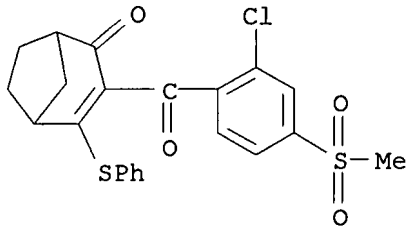
CM 1

CRN 863554-50-1
CMF C15 H10 Cl N O5 S



CM 2

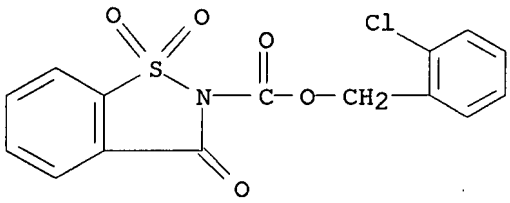
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



RN 927419-15-6 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (2-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one (CA INDEX NAME)

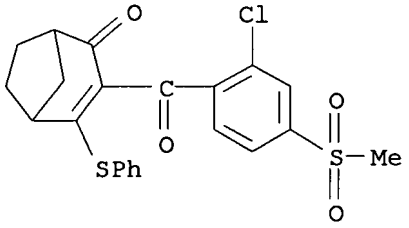
CM 1

CRN 927419-03-2
CMF C15 H10 Cl N O5 S



CM 2

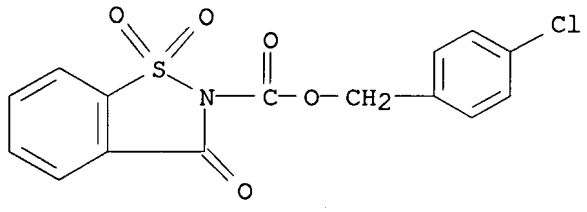
CRN 156963-66-5
CMF C22 H19 Cl O4 S2



RN 927419-22-5 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (4-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and N,N-diethyl-3-[(2,4,6-trimethylphenyl)sulfonyl]-1H-1,2,4-triazole-1-carboxamide (CA INDEX NAME)

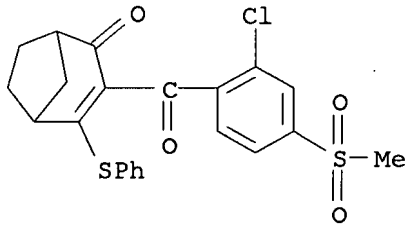
CM 1

CRN 863554-50-1
CMF C15 H10 Cl N O5 S



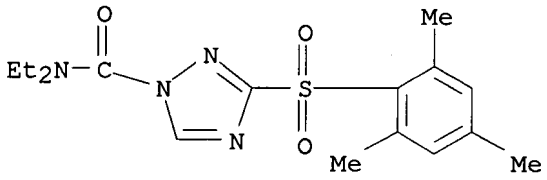
CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



CM 3

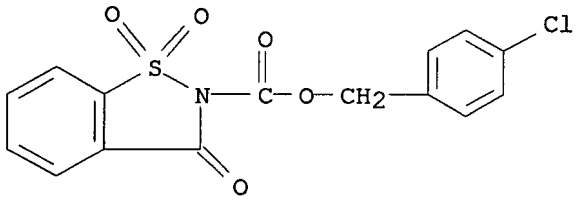
CRN 125306-83-4
CMF C16 H22 N4 O3 S



RN 927419-26-9 CAPLUS
CN 1,2-Benzisothiazole-2(3H)-carboxylic acid, 3-oxo-, (4-chlorophenyl)methyl ester, 1,1-dioxide, mixt. with 3-[2-chloro-4-(methylsulfonyl)benzoyl]-4-(phenylthio)bicyclo[3.2.1]oct-3-en-2-one and methyl 2-[[[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]methyl]benzoate (CA INDEX NAME)

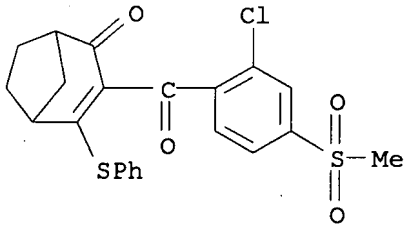
CM 1

CRN 863554-50-1
CMF C15 H10 Cl N O5 S



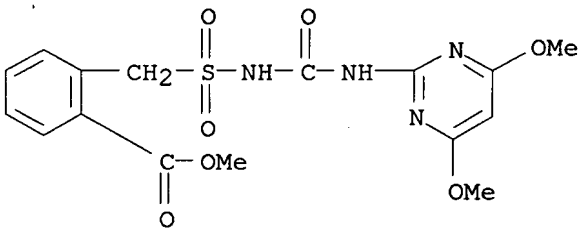
CM 2

CRN 156963-66-5
CMF C22 H19 Cl O4 S2



CM 3

CRN 83055-99-6
CMF C16 H18 N4 O7 S

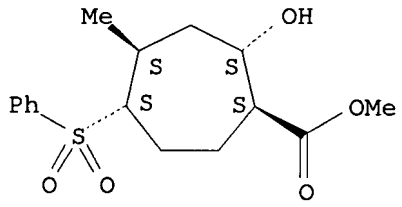


REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2007:120952 CAPLUS
DOCUMENT NUMBER: 146:206022
TITLE: Synthetic studies on the MARDi cascade: stereoselective preparation of sulfonyl-substituted seven-membered rings. [Erratum to document cited in CA146:100354]
AUTHOR(S): Coquerel, Yoann; Bensa, David; Moret, Vincent; Rodriguez, Jean
CORPORATE SOURCE: UMR CNRS 6178, Centre Universitaire de St. Jerome, Universite Paul Cezanne (Aix-Marseille III), Marseille, 13397/20, Fr.
SOURCE: Synlett (2006), (19), 3368
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
AB On page 2752, the chemical structure of cycloheptanol as compound (8) in Table 1 was incorrectly represented. The correct structure is given.
IT 917971-71-2P 917971-72-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation (Erratum))

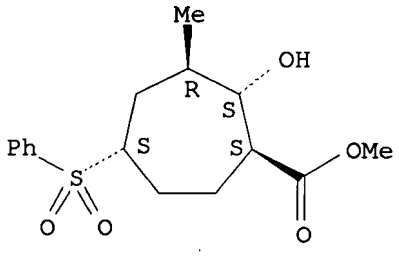
RN 917971-71-2 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-4-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,4R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



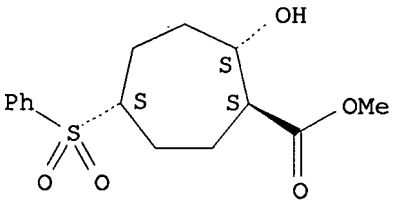
RN 917971-72-3 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-3-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



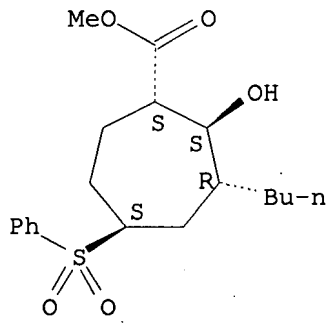
IT 917971-70-1P 917971-73-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation (Erratum))
RN 917971-70-1 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.

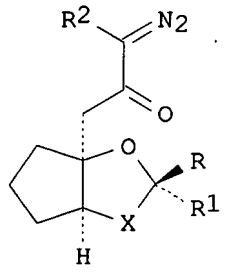


RN 917971-73-4 CAPLUS
CN Cycloheptanecarboxylic acid, 3-butyl-2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

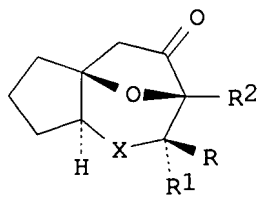
Relative stereochemistry.



L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1261562 CAPLUS
DOCUMENT NUMBER: 146:206186
TITLE: Polycyclic oxonium ylides - Use of cyclic acetals as convenient scaffolds in the construction of fused bicyclic compounds containing a medium ring
AUTHOR(S): Murphy, Graham K.; Marmsaeter, Fredrik P.; West, F. G.
CORPORATE SOURCE: Department of Chemistry, Gunning-Lemieux Chemistry Centre, University of Alberta, Edmonton, AB, T6G 2G2, Can.
SOURCE: Canadian Journal of Chemistry (2006), 84(10), 1470-1486
CODEN: CJCHAG; ISSN: 0008-4042
PUBLISHER: National Research Council of Canada
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:206186
GI



I



II

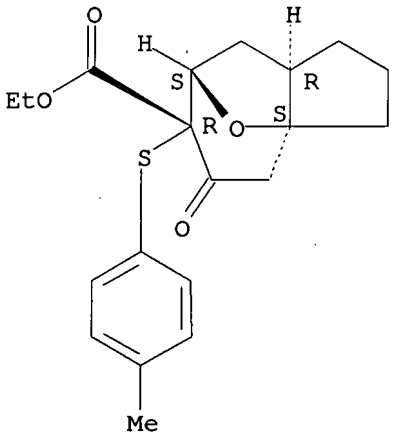
AB Cyclic mixed acetals and thioacetals I (R = H, MeO, 4-MeC6H4S; R1 = MeO, 4-MeC6H4S, H; R2 = H, EtO2C; X = CH2, CH2CH2) with pendant diazoketones undergo efficient rearrangement to ether-bridged cyclooctanoid and cycloheptanoid systems such as oxatricycles II (R = H, MeO, 4-MeC6H4S; R1 = MeO, 4-MeC6H4S, H; R2 = H, EtO2C; X = CH2, CH2CH2) upon treatment with copper bis(hexafluoroacetylacetonate). Other catalysts such as copper bis(trifluoroacetylacetonate), dirhodium tetraacetate, and dirhodium tetrakis(triphenylacetate) are significantly less effective in generating oxygen-bridged polycycles from I. A mechanism for the cyclocondensation is proposed; generation of oxonium ylides from I is followed by a [1,2]-shift to generate II. This work indicates that heteroatom-substituted oxonium ylides can undergo Stevens [1,2]-shifts. The arylthio moiety of products derived from mixed thioacetals can either be reductively cleaved or can be used to cleave the bridging ether.
IT 923054-48-2P
RL: BYP (Byproduct); PREP (Preparation)

(byproduct in the stereoselective preparation of oxatricycles by ylide formation and stereoselective rearrangement of diazoketones containing cyclic mixed acetals and thioacetals)

RN 923054-48-2 CAPLUS

CN 1H-3a,7-Epoxyazulene-6-carboxylic acid, octahydro-6-[(4-methylphenyl)thio]-5-oxo-, ethyl ester, (3aR,6S,7R,8aS)-rel- (CA INDEX NAME)

Relative stereochemistry.



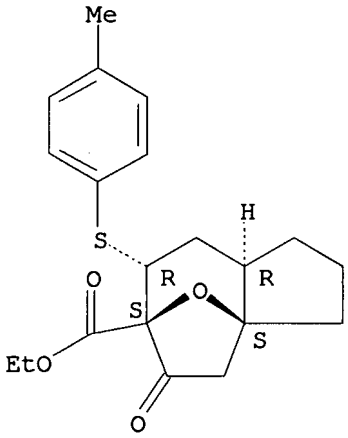
IT 923054-45-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation of oxatricycles by ylide formation and stereoselective rearrangement of diazoketones containing cyclic mixed acetals and thioacetals)

RN 923054-45-9 CAPLUS

CN 6H-3a,6-Epoxyazulene-6-carboxylic acid, octahydro-7-[(4-methylphenyl)thio]-5-oxo-, ethyl ester, (3aR,6R,7S,8aS)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1188387 CAPLUS

DOCUMENT NUMBER: 146:100354

TITLE: Synthetic studies on the MARDi cascade: stereoselective preparation of sulfonyl-substituted

seven-membered rings

AUTHOR(S): Coquerel, Yoann; Bensa, David; Moret, Vincent; Rodriguez, Jean

CORPORATE SOURCE: UMR CNRS 6178, Centre Universitaire de St Jerome, Universite Paul Cezanne (Aix-Marseille III), Marseille, 13397/20, Fr.

SOURCE: Synlett (2006), (17), 2751-2754
CODEN: SYNLES; ISSN: 0936-5214

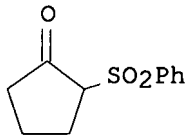
PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal

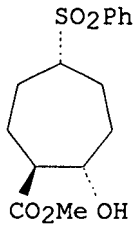
LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:100354

GI



I



II

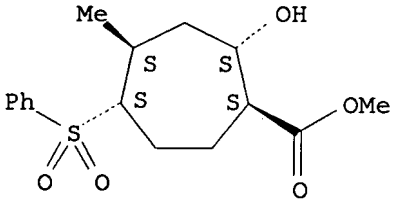
AB A stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes is described. The approach involves a formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation named the MARDi cascade (Michael Aldol Retro-Dieckmann). E.g., to a solution of β-keto sulfone I was added CH2:CHCHO and K2CO3 to give 62% cycloheptane II (dr 4:1).

IT 917971-71-2P 917971-72-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation)

RN 917971-71-2 CAPLUS

CN Cycloheptanecarboxylic acid, 2-hydroxy-4-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,4R,5R)-rel- (CA INDEX NAME)

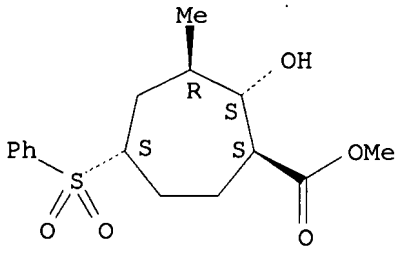
Relative stereochemistry.



RN 917971-72-3 CAPLUS

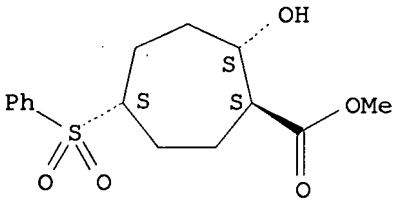
CN Cycloheptanecarboxylic acid, 2-hydroxy-3-methyl-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



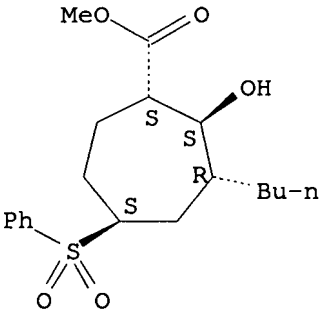
IT 917971-70-1P 917971-73-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective synthesis of functionalized sulfonyl-substituted cycloheptanes via formal two-carbon ring expansion of 2-benzenesulfonyl cyclopentanones through a base-induced anionic domino three-component transformation)
RN 917971-70-1 CAPLUS
CN Cycloheptanecarboxylic acid, 2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



RN 917971-73-4 CAPLUS
CN Cycloheptanecarboxylic acid, 3-butyl-2-hydroxy-5-(phenylsulfonyl)-, methyl ester, (1R,2R,3S,5R)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

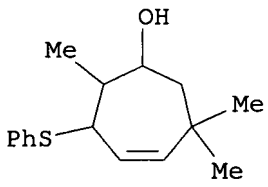
L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:893478 CAPLUS
DOCUMENT NUMBER: 147:67630
TITLE: Supercritical carbon dioxide extraction and analysis of chemical components in Liquidambar orientalis Mill
AUTHOR(S): Su, Demin; Yao, Faye; Shi, Zhu
CORPORATE SOURCE: Department of Medicament, Shandong Province Hospital, Ji'nan, 250021, Peop. Rep. China

SOURCE: Huaxi Yaoxue Zazhi (2005), 20(5), 409-411
CODEN: HYZAE2; ISSN: 1006-0103
PUBLISHER: Huaxi Yike Daxue Yaoxueyuan
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB Supercrit. CO2 dioxide extraction and anal. of chemical components in root of Liquidambar orientalis Mill were studied. The volatile oil from roots of Liquidambar orientalis Mill was extracted by SFE (supercrit. fluid extraction) CO2, and analyzed by gas chromatog.-mass spectrometry (GC-MS). 73 Compds. were identified, representing 87% of the total GC peak area of the volatile oil. The main components were benzyl cinnamate (2.53), benzyl benzoate (29.87), benzyl acetate (1.71), benzenepropyl acetate , caryophyllene (2.42), iso-Bu cinnamate (3.05), patchoulene (1.81), calamenene (1.04), sclareol oxide (1.71), 17- oxo-lupanine (2.80), dehydro-4-epiabietol (5.20) and 2-decylhexadecyldehydro-indeno[2,1-a] indene (3.06%). The study provided scientific bases for the Liquidambar orientalis Mill exploitation in reason.

IT 929903-86-6
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(supercrit. carbon dioxide extraction and anal. of chemical components in Liquidambar orientalis volatile oil)

RN 929903-86-6 CAPLUS
CN 4-Cyclohepten-1-ol, 2,6,6-trimethyl-3-(phenylthio)- (CA INDEX NAME)

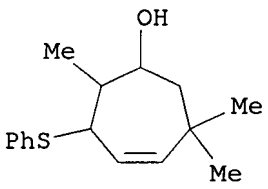


L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:744227 CAPLUS
DOCUMENT NUMBER: 146:365060
TITLE: Chemical components of essential oils from Liquidambar orientalis Mill
AUTHOR(S): Yao, Faye; Qiu, Qin; Cui, Zhaojie; Su, Demin
CORPORATE SOURCE: Department of Chemistry, Shandong Institute of Education, Jinan, 250013, Peop. Rep. China
SOURCE: Yaowu Fenxi Zazhi (2005), 25(7), 859-862
CODEN: YFZADL; ISSN: 0254-1793
PUBLISHER: Yaowu Fenxi Zazhi Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese

AB To analyze the chemical constituents of volatile oil from the root of Liquidambar orientalis Mill, the volatile oils from roots of Liquidambar orientalis Mill was extracted by SFE CO2, and analyzed by gas chromatog.-mass spectrometry (GC-MS). Fifty compds. were identified, which represented 87% of the total GC peak area of the volatile oil. The present study provides scientific bases for the Liquidambar orientalis Mill exploitation in reason.

IT 929903-86-6
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(chemical constituents of volatile oils of Liquidambar)

RN 929903-86-6 CAPLUS
CN 4-Cyclohepten-1-ol, 2,6,6-trimethyl-3-(phenylthio)- (CA INDEX NAME)


OH
Me
Me
PhS
Me